

Query= SEQ ID NO:11  
 (6030 letters)

Sequences producing significant alignments:	Score (bits)	E Value
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AC010127.12.1.190066	2342	0.0
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>AC010127.12.1.190066  
 Length = 190066

Score = 2342 bits (1181), Expect = 0.0  
 Identities = 1181/1181 (100%)  
 Strand = Plus / Minus

Query: 4850	taggtatgtttcttgccgagctgatagaaaagtatttcgtgtccctaccctgttccgag	4909
Sbjct: 47088	taggtatgtttcttgccgagctgatagaaaagtatttcgtgtccctaccctgttccgag	47029

Query: 4910	tgatccgtcttgctaggattggccgaatcctacgtctgatcaaaggagcaaaggggatcc	4969
Sbjct: 47028	tgatccgtcttgctaggattggccgaatcctacgtctgatcaaaggagcaaaggggatcc	46969

Query: 4970	gcacgctgctctttgctttgatgatgtcccttcctgcgttggttaacatcggcctcctac	5029
Sbjct: 46968	gcacgctgctctttgctttgatgatgtcccttcctgcgttggttaacatcggcctcctac	46909

Query: 5030	tcttcctagtcatgttcatctacgccatctttgggatgtccaactttgcctatgttaaga	5089
Sbjct: 46908	tcttcctagtcatgttcatctacgccatctttgggatgtccaactttgcctatgttaaga	46849

Query: 5090	gggaagttgggatcgatgacatgttcaactttgagacctttggcaacagcatgatctgcc	5149
Sbjct: 46848	gggaagttgggatcgatgacatgttcaactttgagacctttggcaacagcatgatctgcc	46789

Query: 5150	tattccaaattacaacctctgctggctgggatggattgctagcaccattctcaacagta	5209
Sbjct: 46788	tattccaaattacaacctctgctggctgggatggattgctagcaccattctcaacagta	46729

Query: 5210	agccacccgactgtgaccctaataaagttaaccctggaagctcagttaagggagactgtg	5269
Sbjct: 46728	agccacccgactgtgaccctaataaagttaaccctggaagctcagttaagggagactgtg	46669

Query: 5270	ggaacccatctgttggaattttctttttgtcagttacatcatcatatccttcctggttg	5329
Sbjct: 46668	ggaacccatctgttggaattttctttttgtcagttacatcatcatatccttcctggttg	46609

Query: 5330 tggatgaacatgtacatcgcggtcatcctggagaacttcagtggtgctactgaagaaagtg 5389  
|||||  
Sbjct: 46608 tggatgaacatgtacatcgcggtcatcctggagaacttcagtggtgctactgaagaaagtg 46549

Query: 5390 cagagcctctgagtgaggatgactttgagatgttctatgaggtttgggagaagtttgatc 5449  
|||||  
Sbjct: 46548 cagagcctctgagtgaggatgactttgagatgttctatgaggtttgggagaagtttgatc 46489

Query: 5450 ccgatgcaactcagttcatggaatttgaaaaattatctcagtttgcagctgcgcttgaac 5509  
|||||  
Sbjct: 46488 ccgatgcaactcagttcatggaatttgaaaaattatctcagtttgcagctgcgcttgaac 46429

Query: 5510 cgcctctcaatctgccacaaccaaactccagctcattgccatggatttgcccatgg 5569  
|||||  
Sbjct: 46428 cgcctctcaatctgccacaaccaaactccagctcattgccatggatttgcccatgg 46369

Query: 5570 tgagtggatgaccggatccactgtcttgatatcttatttgcttttacaagcgggttctag 5629  
|||||  
Sbjct: 46368 tgagtggatgaccggatccactgtcttgatatcttatttgcttttacaagcgggttctag 46309

Query: 5630 gagagagtggagagatggatgctctacgaatacagatggaagagcgattcatggcttcca 5689  
|||||  
Sbjct: 46308 gagagagtggagagatggatgctctacgaatacagatggaagagcgattcatggcttcca 46249

Query: 5690 atccttccaaggtctcctatcagccaatcactactactttaaaacgaaaacaagaggaag 5749  
|||||  
Sbjct: 46248 atccttccaaggtctcctatcagccaatcactactactttaaaacgaaaacaagaggaag 46189

Query: 5750 tatctgctgtcattattcagcgtgcttacagacgccaccttttaaagcgaactgtaaaac 5809  
|||||  
Sbjct: 46188 tatctgctgtcattattcagcgtgcttacagacgccaccttttaaagcgaactgtaaaac 46129

Query: 5810 aagcttcctttacgtacaataaaaaacaaaatcaaagggtggggctaattcttcttataaaag 5869  
|||||  
Sbjct: 46128 aagcttcctttacgtacaataaaaaacaaaatcaaagggtggggctaattcttcttataaaag 46069

Query: 5870 aagacatgataattgacagaataaatgaaaactctattacagaaaaaactgatctgacca 5929  
|||||  
Sbjct: 46068 aagacatgataattgacagaataaatgaaaactctattacagaaaaaactgatctgacca 46009

Query: 5930 tgtccactgcagcttgtccaccttcctatgaccgggtgacaaagccaattgtggaaaaac 5989  
|||||  
Sbjct: 46008 tgtccactgcagcttgtccaccttcctatgaccgggtgacaaagccaattgtggaaaaac 45949

Query: 5990 atgagcaagaaggcaaagatgaaaaagccaaagggaaataa 6030  
|||||  
Sbjct: 45948 atgagcaagaaggcaaagatgaaaaagccaaagggaaataa 45908

Score = 952 bits (480), Expect = 0.0  
Identities = 482/484 (99%)  
Strand = Plus / Minus

Query: 2946 ggtcctgaatctctttctggccttgcttmtgagctcatttagtgcagacaaccttgcagc 3005  
|||||  
Sbjct: 91194 ggtcctgaatctctttctggccttgcttctgagctcatttagtgcagacaaccttgcagc 91135

Query: 3006 cactgatgatgataatgaaatgaataatctccaaattgctgtggataggatgcacaaagg 3065  
|||||  
Sbjct: 91134 cactgatgatgataatgaaatgaataatctccaaattgctgtggataggatgcacaaagg 91075

Query: 3066 agtagcttatgtgaaaagaaaaatatgaatttattcaacagtccttcattaggaaaca 3125  
|||||  
Sbjct: 91074 agtagcttatgtgaaaagaaaaatatgaatttattcaacagtccttcattaggaaaca 91015

Query: 3126 aaagattttagatgaaattaaaccacttgatgatctaacaacaagaaagacagttgtat 3185  
|||||  
Sbjct: 91014 aaagattttagatgaaattaaaccacttgatgatctaacaacaagaaagacagttgtat 90955

Query: 3186 gtccaatcatacarcagaaattgggaaagatcttgactatcttaaagatgtaaatggaac 3245  
|||||  
Sbjct: 90954 gtccaatcatacagcagaaattgggaaagatcttgactatcttaaagatgtaaatggaac 90895

Query: 3246 tacaagtggatataggaactggcagcagtggtgaaaaatacattattgatgaaagtgatta 3305  
|||||  
Sbjct: 90894 tacaagtggatataggaactggcagcagtggtgaaaaatacattattgatgaaagtgatta 90835

Query: 3306 catgtcattcataaacaaccccagtccttactgtgactgtaccaattgctgtaggagaatc 3365  
|||||  
Sbjct: 90834 catgtcattcataaacaaccccagtccttactgtgactgtaccaattgctgtaggagaatc 90775

Query: 3366 tgactttgaaaattttaaacacggaagacttttagtagtgaatcggatctggaagaaagcaa 3425  
|||||  
Sbjct: 90774 tgactttgaaaattttaaacacggaagacttttagtagtgaatcggatctggaagaaagcaa 90715

Query: 3426 agag 3429  
||||  
Sbjct: 90714 agag 90711

Score = 761 bits (384), Expect = 0.0  
Identities = 384/384 (100%)  
Strand = Plus / Minus

Query: 1661 agtctttgttgagcatccgtggctccctattttcaccaaggcgaaatagcagaacaagcc 1720  
|||||  
Sbjct: 98714 agtctttgttgagcatccgtggctccctattttcaccaaggcgaaatagcagaacaagcc 98655

Query: 1721 ttttcagcttttagagggcgagcaaaggatgtgggatctgagaacgacttcgcagatgatg 1780  
|||||  
Sbjct: 98654 ttttcagcttttagagggcgagcaaaggatgtgggatctgagaacgacttcgcagatgatg 98595

Query: 1781 agcacagcacctttgaggataacgagagccgtagagattccttgtttggtgccccgacgac 1840  
|||||  
Sbjct: 98594 agcacagcacctttgaggataacgagagccgtagagattccttgtttggtgccccgacgac 98535

Query: 1841 acggagagagacgcaacagcaacctgagtcagaccagtaggtcatcccggatgctggcag 1900  
|||||  
Sbjct: 98534 acggagagagacgcaacagcaacctgagtcagaccagtaggtcatcccggatgctggcag 98475

Query: 1901 tgtttccagcgaatgggaagatgcacagcactgtggattgcaatggtgtggtttccttgg 1960  
|||||  
Sbjct: 98474 tgtttccagcgaatgggaagatgcacagcactgtggattgcaatggtgtggtttccttgg 98415

Query: 1961 ttggtggaccttcagttcctacatcgctggttgacagcttctgccagaggtgataatag 2020  
|||||  
Sbjct: 98414 ttggtggaccttcagttcctacatcgctggttgacagcttctgccagaggtgataatag 98355

Query: 2021 ataagccagctactgatgacaatg 2044  
|||||  
Sbjct: 98354 ataagccagctactgatgacaatg 98331

Score = 714 bits (360), Expect = 0.0  
Identities = 360/360 (100%)  
Strand = Plus / Minus

Query: 2589 gctgcgagttttcaagttggcaaaatcttggccaacggttaaataatgctaataaagatcat 2648  
|||||  
Sbjct: 92796 gctgcgagttttcaagttggcaaaatcttggccaacggttaaataatgctaataaagatcat 92737

Query: 2649 cggcaattccgtgggggctctgggaaatttaaccctcgctcttggccatcatcgctcttcat 2708  
|||||  
Sbjct: 92736 cggcaattccgtgggggctctgggaaatttaaccctcgctcttggccatcatcgctcttcat 92677

Query: 2709 ttttgccgtgggtcggcacatgcagctcttttggtaaaagctacaaagattgtgtctgcaagat 2768  
|||||  
Sbjct: 92676 ttttgccgtgggtcggcacatgcagctcttttggtaaaagctacaaagattgtgtctgcaagat 92617

Query: 2769 cgccagtgtattgtcaactcccacgctggcacatgaatgacttcttcactccttcctgat 2828  
|||||  
Sbjct: 92616 cgccagtgtattgtcaactcccacgctggcacatgaatgacttcttcactccttcctgat 92557

Query: 2829 tgtgttccgcgtgctgtgtgtggggagtggatagagaccatgtgggactgtatggagggttc 2888  
|||||  
Sbjct: 92556 tgtgttccgcgtgctgtgtgtggggagtggatagagaccatgtgggactgtatggagggttc 92497

Query: 2889 tgggtcaagccatgtgccttactgtcttcatgatgggtcatgggtgattggaaacctagtgg 2948  
|||||  
Sbjct: 92496 tgggtcaagccatgtgccttactgtcttcatgatgggtcatgggtgattggaaacctagtgg 92437

Score = 569 bits (287), Expect = e-159  
Identities = 287/287 (100%)  
Strand = Plus / Minus

Query: 1376 agcaggcagcaacggcaactgcctcagaacattccagagagcccagtgagcaggcaggc 1435  
|||||  
Sbjct: 99992 agcaggcagcaacggcaactgcctcagaacattccagagagcccagtgagcaggcaggc 99933

Query: 1436 tctcagacagctcatctgaagcctctaagttgagttccaagagtgttaaggaaagaagaa 1495  
|||||  
Sbjct: 99932 tctcagacagctcatctgaagcctctaagttgagttccaagagtgttaaggaaagaagaa 99873

Query: 1496 atcggaggaagaaaagaaaacagaaagagcagctctgggtggggaagagaaagatgaggatg 1555  
|||||  
Sbjct: 99872 atcggaggaagaaaagaaaacagaaagagcagctctgggtggggaagagaaagatgaggatg 99813

Query: 1556 aattccaaaaatctgaatctgaggacagcatcaggaggaaagggttttcgcttctccattg 1615  
|||||  
Sbjct: 99812 aattccaaaaatctgaatctgaggacagcatcaggaggaaagggttttcgcttctccattg 99753

Query: 1616 aagggaaccgattgacatatgaaaagagggtactcctccccacaccag 1662  
|||||  
Sbjct: 99752 aagggaaccgattgacatatgaaaagagggtactcctccccacaccag 99706

Score = 563 bits (284), Expect = e-157  
Identities = 284/284 (100%)  
Strand = Plus / Minus

Query: 4002 ggtgggtgtgaatgcccttttaggagcaattccatccatcatgaatgtgcttctggtttg 4061  
|||||  
Sbjct: 57417 ggtgggtgtgaatgcccttttaggagcaattccatccatcatgaatgtgcttctggtttg 57358

Query: 4062 tcttatattctggctaattttcagcatcatgggcgtaaatttgtttgctggcaaattcta 4121  
|||||  
Sbjct: 57357 tcttatattctggctaattttcagcatcatgggcgtaaatttgtttgctggcaaattcta 57298

Query: 4122 ccactgtattaacaccacaactggtgacaggtttgacatcgaagacgtgaataatcatac 4181  
|||||  
Sbjct: 57297 ccactgtattaacaccacaactggtgacaggtttgacatcgaagacgtgaataatcatac 57238

Query: 4182 tgattgcctaaaactaatagaaagaaatgagactgctcgatggaaaaatgtgaaagtaaa 4241  
|||||  
Sbjct: 57237 tgattgcctaaaactaatagaaagaaatgagactgctcgatggaaaaatgtgaaagtaaa 57178

Query: 4242 ctttgataatgtaggatttgggtatctctctttgcttcaagttg 4285  
|||||  
Sbjct: 57177 ctttgataatgtaggatttgggtatctctctttgcttcaagttg 57134

Score = 543 bits (274), Expect = e-151  
Identities = 274/274 (100%)  
Strand = Plus / Minus

Query: 4582 aacaaatttcaaggaatggtctttgacttcgtaaccagacaagtttttgacataagcatc 4641  
|||||  
Sbjct: 49079 aacaaatttcaaggaatggtctttgacttcgtaaccagacaagtttttgacataagcatc 49020

Query: 4642 atgattctcatctgtcttaacatggtcacaatgatggtggaaacagatgaccagagttaa 4701  
|||||  
Sbjct: 49019 atgattctcatctgtcttaacatggtcacaatgatggtggaaacagatgaccagagttaa 48960

Query: 4702 tatgtgactaccattttgtcacgcatcaatctggtgttcattgtgctattttactggagag 4761  
|||||  
Sbjct: 48959 tatgtgactaccattttgtcacgcatcaatctggtgttcattgtgctattttactggagag 48900

Query: 4762 tgtgtactgaaactcatctctctacgccattatttttaccattggatggaatattttt 4821  
|||||  
Sbjct: 48899 tgtgtactgaaactcatctctctacgccattatttttaccattggatggaatattttt 48840

Query: 4822 gattttgtggtgtgcattctctccattgtaggta 4855  
|||||  
Sbjct: 48839 gattttgtggtgtgcattctctccattgtaggta 48806

Score = 543 bits (274), Expect = e-151  
Identities = 274/274 (100%)  
Strand = Plus / Minus

Query: 692 caggcctgaaaaccattgtgggagccctgatccagctctgtgaagaagctctcagatgtaa 751  
|||||  
Sbjct: 106654 caggcctgaaaaccattgtgggagccctgatccagctctgtgaagaagctctcagatgtaa 106595

Query: 752 tgatcctgactgtgttctgtctgagcgtatttgctctaattgggctgcagctgttcatgg 811  
|||||  
Sbjct: 106594 tgatcctgactgtgttctgtctgagcgtatttgctctaattgggctgcagctgttcatgg 106535

Query: 812 gcaacctgaggaataaatgtatacaatggcctcccaccaatgcttccttgaggaggaacata 871  
|||||  
Sbjct: 106534 gcaacctgaggaataaatgtatacaatggcctcccaccaatgcttccttgaggaggaacata 106475

Query: 872 gtatagaaaagaatataactgtgaattataatggtacacttataaatgaaactgtcctttg 931  
|||||  
Sbjct: 106474 gtatagaaaagaatataactgtgaattataatggtacacttataaatgaaactgtcctttg 106415

Query: 932 agtttgactggaagtcatatattcaagattcaag 965  
|||||  
Sbjct: 106414 agtttgactggaagtcatatattcaagattcaag 106381

Score = 524 bits (264), Expect = e-145  
Identities = 264/264 (100%)  
Strand = Plus / Minus

Query: 1 atggagcaaacagtgtttgtaccaccaggacctgacagcttcaacttcttcaccagagaa 60  
|||||  
Sbjct: 128284 atggagcaaacagtgtttgtaccaccaggacctgacagcttcaacttcttcaccagagaa 128225

Query: 61 tctcttgcggtattgaaagacgcattgcagaagaaaaggcaaagaatcccaaaccagac 120  
|||||  
Sbjct: 128224 tctcttgcggtattgaaagacgcattgcagaagaaaaggcaaagaatcccaaaccagac 128165

Query: 121 aaaaaagatgacgacgaaaatggcccaaagccaaatagtgacttgggaagctggaaagaac 180  
|||||  
Sbjct: 128164 aaaaaagatgacgacgaaaatggcccaaagccaaatagtgacttgggaagctggaaagaac 128105

Query: 181 cttccattttatgttgagacattcctccagagatggtgtcagagcccctggaggacctg 240  
|||||  
Sbjct: 128104 cttccattttatgttgagacattcctccagagatggtgtcagagcccctggaggacctg 128045

Query: 241 gaccctactatatcaataagaaa 264  
|||||  
Sbjct: 128044 gaccctactatatcaataagaaa 128021

Score = 478 bits (241), Expect = e-131  
Identities = 242/243 (99%)  
Strand = Plus / Minus

Query: 2175 agaacttgaagaatccaggcagaaatgccaccctgttggtataaattttccaacatatt 2234  
|||||  
Sbjct: 96134 agaacttgaagaatccaggcagaaatgccaccctgttggtataaattttccaacatatt 96075

Query: 2235 cttaatctgggactgttctccatattggttaaaagtgaacatgttgtcaacctggtygt 2294  
|||||  
Sbjct: 96074 cttaatctgggactgttctccatattggttaaaagtgaacatgttgtcaacctggttgt 96015

Query: 2295 gatggacccatttgttgacctggccatcaccatctgtattgtcttaataactcttttcat 2354  
|||||  
Sbjct: 96014 gatggacccatttgttgacctggccatcaccatctgtattgtcttaataactcttttcat 95955

Query: 2355 ggccatggagcactatccaatgacggaccatttcaataatgtgcttacagtaggaaactt 2414  
|||||  
Sbjct: 95954 ggccatggagcactatccaatgacggaccatttcaataatgtgcttacagtaggaaactt 95895

Query: 2415 ggt 2417  
|||  
Sbjct: 95894 ggt 95892

Score = 405 bits (204), Expect = e-109  
Identities = 207/208 (99%)  
Strand = Plus / Minus

Query: 1170 gacattacgtgctgctgggaaaacgtacatgatattttttgtgttggtcattttcttggg 1229  
|||||  
Sbjct: 101640 gacattacgtgctgctgggaaaacgtacatgatattttttgtattggtcattttcttggg 101581

Query: 1230 ctcattctacctaataaatttgatcctggctgtggtggccatggcctacgaggaacagaa 1289  
|||||  
Sbjct: 101580 ctcattctacctaataaatttgatcctggctgtggtggccatggcctacgaggaacagaa 101521



Query: 1290 tcaggccaccttgaagaagcagaacagaaagaggccgaatttcagcagatgattgaaca 1349  
|||||  
Sbjct: 101520 tcaggccaccttgaagaagcagaacagaaagaggccgaatttcagcagatgattgaaca 101461

Query: 1350 gcttaaaaagcaacaggaggcagctcag 1377  
|||||  
Sbjct: 101460 gcttaaaaagcaacaggaggcagctcag 101433

Score = 351 bits (177), Expect = 3e-93  
Identities = 177/177 (100%)  
Strand = Plus / Minus

Query: 3705 ggcatttgaagatatatatattgatcagcgaaagacgattaagacgatgttggaatatgc 3764  
|||||  
Sbjct: 66946 ggcatttgaagatatatatattgatcagcgaaagacgattaagacgatgttggaatatgc 66887

Query: 3765 tgacaagggttttcacttacattttcattctggaaatgcttctaaaatgggtggcatatgg 3824  
|||||  
Sbjct: 66886 tgacaagggttttcacttacattttcattctggaaatgcttctaaaatgggtggcatatgg 66827

Query: 3825 ctatcaaacatattttcaccaatgcctggtgttggtggacttcttaattgttgatgt 3881  
|||||  
Sbjct: 66826 ctatcaaacatattttcaccaatgcctggtgttggtggacttcttaattgttgatgt 66770

Score = 347 bits (175), Expect = 5e-92  
Identities = 175/175 (100%)  
Strand = Plus / Minus

Query: 2415 ggttttcactgggatctttacagcagaaatgtttctgaaaattattgccatggatcctta 2474  
|||||  
Sbjct: 94260 ggttttcactgggatctttacagcagaaatgtttctgaaaattattgccatggatcctta 94201

Query: 2475 ctattattttccaagaaggctggaatatctttgacgggttttattgtgacgcttagcctggt 2534  
|||||  
Sbjct: 94200 ctattattttccaagaaggctggaatatctttgacgggttttattgtgacgcttagcctggt 94141

Query: 2535 agaacttggaactcgccaatgtggaaggattatctgttctccgttcatttcgattg 2589  
|||||  
Sbjct: 94140 agaacttggaactcgccaatgtggaaggattatctgttctccgttcatttcgattg 94086

Score = 313 bits (158), Expect = 7e-82  
Identities = 158/158 (100%)  
Strand = Plus / Minus

Query: 3549 aggctgtgtacaaagattcaagtgttgtcaaataaatgtggaagaaggcagaggaaaaca 3608  
|||||  
Sbjct: 68563 aggctgtgtacaaagattcaagtgttgtcaaataaatgtggaagaaggcagaggaaaaca 68504

Query: 3609 atggtggaacctgagaaggacgtgtttccgaatagttgaacataactggtttgagacctt 3668  
|||||  
Sbjct: 68503 atggtggaacctgagaaggacgtgtttccgaatagttgaacataactggtttgagacctt 68444

Query: 3669 cattgttttcatgattctccttagtagtggtgctctgg 3706  
|||||  
Sbjct: 68443 cattgttttcatgattctccttagtagtggtgctctgg 68406

Score = 284 bits (143), Expect = 6e-73  
Identities = 147/148 (99%), Gaps = 1/148 (0%)  
Strand = Plus / Minus

Query: 1023 tgcaggccaatgtccagagggatatatgtgtgtgaaagctggtagaaatcccaattatgg 1082  
|||||  
Sbjct: 102436 tgca-gccaatgtccagagggatatatgtgtgtgaaagctggtagaaatcccaattatgg 102378

Query: 1083 ctacacaagctttgataccttcagttgggctttttgtccttgtttcgactaatgactca 1142  
|||||  
Sbjct: 102377 ctacacaagctttgataccttcagttgggctttttgtccttgtttcgactaatgactca 102318

Query: 1143 ggacttctgggaaaatctttatcaactg 1170  
|||||  
Sbjct: 102317 ggacttctgggaaaatctttatcaactg 102290

Score = 274 bits (138), Expect = 6e-70  
Identities = 138/138 (100%)  
Strand = Plus / Minus

Query: 4339 gtggaactccagcctaagtatgaagaaagtctgtacatgtatctttactttgttatcttc 4398  
|||||  
Sbjct: 52838 gtggaactccagcctaagtatgaagaaagtctgtacatgtatctttactttgttatcttc 52779

Query: 4399 atcatctttgggtccttcttcaccttgaacctgtttattgggtgtcatcatagataatttc 4458  
|||||  
Sbjct: 52778 atcatctttgggtccttcttcaccttgaacctgtttattgggtgtcatcatagataatttc 52719

Query: 4459 aaccagcagaaaaagaag 4476  
|||||  
Sbjct: 52718 aaccagcagaaaaagaag 52701

Score = 264 bits (133), Expect = 6e-67  
Identities = 133/133 (100%)  
Strand = Plus / Minus

Query: 2044 ggaacaaccactgaaactgaaatgagaaagagaagggtcaagttctttccacgtttccatg 2103  
|||||  
Sbjct: 97087 ggaacaaccactgaaactgaaatgagaaagagaagggtcaagttctttccacgtttccatg 97028

Query: 2104 gactttctagaagatccttcccaaaggcaacgagcaatgagtatagccagcattctaaca 2163  
|||||  
Sbjct: 97027 gactttctagaagatccttcccaaaggcaacgagcaatgagtatagccagcattctaaca 96968

Query: 2164 aatacagtagaag 2176  
|||||  
Sbjct: 96967 aatacagtagaag 96955

Score = 262 bits (132), Expect = 2e-66  
Identities = 132/132 (100%)  
Strand = Plus / Minus

Query: 474 atacaccttcacaggaatatatacttttgaatcacttataaaaattattgcaaggggatt 533  
|||||  
Sbjct: 109429 atacaccttcacaggaatatatacttttgaatcacttataaaaattattgcaaggggatt 109370

Query: 534 ctgtttagaagattttactttccttcgggatccatggaactggctcgatttcactgtcat 593  
|||||  
Sbjct: 109369 ctgtttagaagattttactttccttcgggatccatggaactggctcgatttcactgtcat 109310

Query: 594 tacatttgcgta 605  
|||||  
Sbjct: 109309 tacatttgcgta 109298

Score = 248 bits (125), Expect = 3e-62  
Identities = 125/125 (100%)  
Strand = Plus / Minus

Query: 3880 gtttcattgggtcagtttaacagcaaatagccttgggttactcagaacttggagccatcaaa 3939  
|||||  
Sbjct: 64504 gtttcattgggtcagtttaacagcaaatagccttgggttactcagaacttggagccatcaaa 64445

Query: 3940 tctctcaggacactaagagctctgagacctctaagagccttatctcgatttgaagggatg 3999  
|||||  
Sbjct: 64444 tctctcaggacactaagagctctgagacctctaagagccttatctcgatttgaagggatg 64385

Query: 4000 aggggt 4004  
|||||  
Sbjct: 64384 aggggt 64380

Score = 246 bits (124), Expect = 1e-61  
Identities = 124/124 (100%)  
Strand = Plus / Minus

Query: 3428 agaaactgaatgaaagcagtagctcatcagaaggttagcactgtggacatcggcgcacctg 3487  
|||||  
Sbjct: 70392 agaaactgaatgaaagcagtagctcatcagaaggttagcactgtggacatcggcgcacctg 70333

Query: 3488 tagaagaacagcccgtagtggaaacctgaagaaactcttgaaccagaagcttggtttcactg 3547  
|||||  
Sbjct: 70332 tagaagaacagcccgtagtggaaacctgaagaaactcttgaaccagaagcttggtttcactg 70273

Query: 3548 aagg 3551  
|||||  
Sbjct: 70272 aagg 70269

Score = 240 bits (121), Expect = 8e-60  
Identities = 121/121 (100%)  
Strand = Plus / Minus

Query: 265 acttttatagtattgaataaagggaaggccatcttccggttcagtgccacctctgccctg 324  
|||||  
Sbjct: 113351 acttttatagtattgaataaagggaaggccatcttccggttcagtgccacctctgccctg 113292

Query: 325 tacattttaactcccttcaatcctcttaggaaaatagctattaagattttggtacattca 384  
|||||  
Sbjct: 113291 tacattttaactcccttcaatcctcttaggaaaatagctattaagattttggtacattca 113232

Query: 385 t 385  
|  
Sbjct: 113231 t 113231

Score = 208 bits (105), Expect = 3e-50  
Identities = 105/105 (100%)  
Strand = Plus / Minus

Query: 4477 tttggaggtcaagacatctttatgacagaagaacagaagaaataactataatgcaatgaaa 4536  
|||||  
Sbjct: 50780 tttggaggtcaagacatctttatgacagaagaacagaagaaataactataatgcaatgaaa 50721

Query: 4537 aaattaggatcgaaaaaacgcgaaaagcctatacctcgaccagga 4581  
|||||  
Sbjct: 50720 aaattaggatcgaaaaaacgcgaaaagcctatacctcgaccagga 50676

Score = 184 bits (93), Expect = 4e-43  
Identities = 93/93 (100%)  
Strand = Plus / Minus

Query: 603 gtacgtcacagagtttgtggacctgggcaatgtctcggcattgagaacattcagagttct 662  
|||||  
Sbjct: 107606 gtacgtcacagagtttgtggacctgggcaatgtctcggcattgagaacattcagagttct 107547

Query: 663 ccgagcattgaagacgatttcagtcattccagg 695  
|||||  
Sbjct: 107546 ccgagcattgaagacgatttcagtcattccagg 107514

Score = 180 bits (91), Expect = 7e-42  
Identities = 91/91 (100%)  
Strand = Plus / Minus

Query: 383 cattattcagcatgctaattatgtgcactattttgacaaactgtgtgtttatgacaatga 442  
|||||  
Sbjct: 111164 cattattcagcatgctaattatgtgcactattttgacaaactgtgtgtttatgacaatga 111105

Query: 443 gtaaccctcctgattggacaaagaatgtaga 473  
|||||  
Sbjct: 111104 gtaaccctcctgattggacaaagaatgtaga 111074

Score = 127 bits (64), Expect = 9e-26  
Identities = 64/64 (100%)  
Strand = Plus / Minus

Query: 965 gatatcattatcttctggagggttttttagatgcactactatgtggaaatagctctgatg 1024  
|||||  
Sbjct: 103612 gatatcattatcttctggagggttttttagatgcactactatgtggaaatagctctgatg 103553

Query: 1025 cagg 1028  
||||  
Sbjct: 103552 cagg 103549

Score = 111 bits (56), Expect = 5e-21  
Identities = 56/56 (100%)  
Strand = Plus / Minus

Query: 4285 gccacattcaaaggatggatggatataatgtatgcagcagttgattccagaaatgt 4340  
|||||  
Sbjct: 54439 gccacattcaaaggatggatggatataatgtatgcagcagttgattccagaaatgt 54384



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Links

LOCUS AC010127 190066 bp DNA linear PRI 09-MAY-2001  
 DEFINITION Homo sapiens BAC clone RP11-2I8 from 2, complete sequence.  
 ACCESSION AC010127  
 VERSION AC010127.12 GI:11597116  
 KEYWORDS HTG.  
 SOURCE Homo sapiens (human)  
 ORGANISM Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1 (bases 1 to 190066)  
 AUTHORS Sulston,J.E. and Waterston,R.  
 TITLE Toward a complete human genome sequence  
 JOURNAL Genome Res. 8 (11), 1097-1108 (1998)  
 MEDLINE 99063792  
 PUBMED 9847074

REFERENCE 2 (bases 1 to 190066)  
 AUTHORS Goyea,E., Abbott,A. and MacDonald,J.  
 TITLE The sequence of Homo sapiens BAC clone RP11-2I8  
 JOURNAL Unpublished

REFERENCE 3 (bases 1 to 190066)  
 AUTHORS Waterston,R.H.  
 TITLE Direct Submission  
 JOURNAL Submitted (13-SEP-1999) Genome Sequencing Center, Washington  
 University School of Medicine, 4444 Forest Park Parkway, St. Louis,  
 MO 63108, USA

REFERENCE 4 (bases 1 to 190066)  
 AUTHORS Waterston,R.H.  
 TITLE Direct Submission  
 JOURNAL Submitted (07-DEC-2000) Genome Sequencing Center, Washington  
 University School of Medicine, 4444 Forest Park Parkway, St. Louis,  
 MO 63108, USA

REFERENCE 5 (bases 1 to 190066)  
 AUTHORS Waterston,R.H.  
 TITLE Direct Submission  
 JOURNAL Submitted (08-DEC-2000) Genome Sequencing Center, Washington  
 University School of Medicine, 4444 Forest Park Parkway, St. Louis,  
 MO 63108, USA

REFERENCE 6 (bases 1 to 190066)  
 AUTHORS Waterston,R.  
 TITLE Direct Submission  
 JOURNAL Submitted (09-MAY-2001) Department of Genetics, Washington  
 University, 4444 Forest Park Avenue, St. Louis, Missouri 63108, USA

COMMENT On Dec 7, 2000 this sequence version replaced gi:[10765079](#).  
 ----- Genome Center  
 Center: Washington University Genome Sequencing Center  
 Center code: WUGSC  
 Web site: <http://genome.wustl.edu/gsc>